

AMENDMENTS TO THE CLAIMS:

1. (Previously Presented) A chip antenna comprising:

a base member comprising at least one of a dielectric material and a magnetic material
and including a stacked structure including a plurality of stacked layers;

a plurality of pattern antennas formed on the plurality of stacked layers and which
have predetermined patterns, respectively, and of which at least parts of said predetermined
patterns are not overlapping with each other in a stacked direction of the plurality of stacked
layers, and

a feeding terminal which is formed on a surface of said base member and which is
connected to each of the plurality of stacked layers.
2. (Original) A wireless communication device in which said chip antenna as claimed in
claim 1 is used.
3. (Previously Presented) A chip antenna unit having predetermined frequency
characteristics, comprising:

a mounting substrate;

a base member which is mounted on said mounting substrate and comprising at least
one of a dielectric material and a magnetic material;

a pattern antenna which is formed on said base member;

a feeding terminal which is formed on a surface of said base member and which is
connected to said pattern antenna;

a fixed terminal which is formed on a surface of said base member and which is connected to said pattern antenna;

a fixing portion comprising a conductor and which is formed on said mounting substrate and which is connected to said fixed terminal and thereby fixes said base member on said mounting substrate; and

said predetermined frequency characteristics being adjusted by changing an area of said fixing portion.

4. (Original) A wireless communication device in which said chip antenna unit as claimed in claim 3 is used.

5. (Previously Presented) A chip antenna unit having predetermined frequency characteristics, comprising:

a mounting substrate;

a base member which is mounted on said mounting substrate and comprising at least one of a dielectric material and a magnetic material and which has a stacked structure including a plurality of layers;

a plurality of pattern antennas which are formed on said plurality of layers and which have predetermined patterns, respectively, and of which at least parts of said predetermined patterns are not overlapping with each other in a stacked direction of said plurality of layers;

a feeding terminal which is formed on a surface of said base member and which is connected to said pattern antenna;

a fixed terminal which is formed on a surface of said base member and which is connected to said pattern antenna;

a fixing portion comprising a conductor and which is formed on said mounting substrate and which is connected to said fixed terminal and thereby fixes said base member on said mounting substrate; and

said predetermined frequency characteristics being adjusted by changing an area of said fixing portion.

6. (Original) A wireless communication device in which said chip antenna unit as claimed in claim 5 is used.

7. (Previously Presented) A chip antenna comprising;

a stacked base member comprising at least one of a dielectric material and a magnetic material and a stacked structure including a plurality of layers;

a pattern antenna which is formed on at least one of the plurality of layers and which includes a first area having a rectangular shape and a second area elongating continuously from said first area;

a slit dividing said first and said second areas of said pattern antenna, said slit elongating straight in a longitudinal direction of the stacked base member; and

a feeding terminal which is formed on a surface of said stacked base member and which is connected to said pattern antenna.

Serial No. 10/722,433
Docket No.: P04549-US
CLO.008

8. (Previously Presented) A chip antenna as claimed in claim 7, wherein a slit is formed between said first and said second areas of said pattern antenna,
said chip antenna further comprising:

a fixed terminal which is formed on a surface of said stacked base member and which is connected to said pattern antenna; and

a fixing portion comprising a conductor and which is formed on a mounting substrate and which is connected to said fixed terminal and thereby fixes said stacked base member on said mounting substrate.

9. (Previously Presented) A chip antenna as claimed in claim 7, wherein said chip antenna further comprises another pattern antenna having a shape other than that of said pattern antenna.

10. (Canceled)

11. (Original) A. wireless communication device in which said chip antenna as claimed in claim 7 is used.

12. (Original) A wireless communication device in which said chip antenna as claimed in claim 8 is used.

13. (Original) A wireless communication device in which said chip antenna as claimed in claim 9 is used.

Serial No. 10/722,433
Docket No.: P04549-US
CLO.008

14. (Previously Presented) A chip antenna as claimed in claim 1, further comprising:

a fixed terminal which is formed on a surface of said base member and which is connected to said plurality of pattern antennas; and

a fixing portion comprising a conductor and which is formed on a mounting substrate and which is connected to said fixed terminal and thereby fixes said base member on said mounting substrate.

15. (Currently Amended) ~~A chip antenna as claimed in claim 10;~~ A chip antenna comprising:

a base member comprising at least one of a dielectric material and a magnetic material;

a pattern antenna which is formed on said base member and which includes a first area having a rectangular shape and a second area elongating continuously from said first area;

a slit formed between said first and said second areas of said pattern antenna;

a feeding terminal which is formed on a surface of said base member and which is connected to said pattern antenna; and

another pattern antenna having a shape other than that of said pattern antenna,

wherein said base member comprises a stacked structure including a plurality of layers.

Serial No. 10/722,433
Docket No.: P04549-US
CLO.008

16. (Currently Amended) A chip antenna comprising:

a base member comprising at least one of a dielectric material and a magnetic material,

a pattern antenna formed on said base member;

a fixed terminal which is formed on a surface of said base member and which is connected to said pattern antenna; and

a fixing portion comprising a conductor and which is formed on a mounting substrate and which is connected to said fixed terminal and thereby fixes said base member on said mounting ~~substrate~~ substrate.

wherein a frequency characteristic of the chip antenna is adjustable by changing an area of said fixing portion.

17. (Currently Amended) ~~A chip antenna as claimed in claim 16,~~ A chip antenna comprising:

a base member comprising at least one of a dielectric material and a magnetic material,

a pattern antenna formed on said base member;

a fixed terminal which is formed on a surface of said base member and which is connected to said pattern antenna; and

a fixing portion comprising a conductor and which is formed on a mounting substrate and which is connected to said fixed terminal and thereby fixes said base member on said mounting substrate.

Serial No. 10/722,433
Docket No.: P04549-US
CLO.008

wherein said base member comprises a stacked structure including a plurality of layers.

18. (Canceled)

19. (Previously Presented) A wireless communication device in which said chip antenna as claimed in claim 14 is used.

20. (Previously Presented) A wireless communication device in which said chip antenna as claimed in claim 16 is used.